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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/604,313	07/10/2003	Grigoriy Grinberg	201-0423 (FCHM 0133 PUS1)	1312	
28395 7	10/06/2006		EXAMI	NER	
BROOKS KUSHMAN P.C./FGTL 1000 TOWN CENTER			LIN, ING HOUR		
22ND FLOOR		ART UNIT	PAPER NUMBER		
SOUTHFIELD), MI 48075-1238		1725		
			DATE MAILED: 10/06/2004	DATE MAILED, 10/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/604,313	GRINBERG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ing-Hour Lin	1725				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from tte, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10.	<u>July 2006</u> .					
2a) This action is FINAL . 2b) ⊠ Th	2b)⊠ This action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.						
4a) Of the above claim(s) 1-12 and 30 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>13-29</u> is/are rejected.						
7)⊠ Claim(s) <u>20 and 26</u> is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
10)⊠ The drawing(s) filed on 10 July 2003 is/are: a)⊠ accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corre	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a lis	st of the certified copies flot receive	cu.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date <u>7/03, 9/03 & 3/05</u> .	6) Other:					

DETAILED ACTION

1. Claims 1-12 and 30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 7/10/06.

Claim Objections

2. Claims 20 and 26 are objected to because of the following informalities: In claim 20, line 4, "segregate" should be changed to –segregated--; and lines 7-8, "ration" should be changed to – ratio--. In claim 26, line 1, "there" should be deleted. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 13-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 13, lines 2-3, "non-randomly distributed particles in a "composite main body portion" is unclear because it is not supported or defined in the claim or in the specification. In claims 19-20, the claimed "randomly distributed particles" is unclear because it is not supported or defined in the claim or in the specification.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 13, 16-28 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Covino et al.

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Covino et al (col. 4, lines 41+) teaches the claimed spray formed tooling article, comprising a composite of zinc alloy shell coated by second metal including copper and iron and produced using an arc spray gun 22 making successive path (stripe) including longitudinal and transverse orientation striking molten metal particle or droplet over surface of matrix (pattern) having a shape to be molded.

9. Claims 14-15 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Covino et al in view of Rogers.

Covino et al fail to teach the use of pseudo-alloy (negligible alloying) coating between spray particle and zinc substrate. However, Rogers (col. 2, lines 15+) teach the use of pseudo-alloy (negligible alloying) coating between spray particle and substrate for the purpose of effectively providing mechanical interfacial adhesion. It would have been obvious to one having ordinary skill in the art to provide Covino et al the use of pseudo-alloy (negligible alloying) coating between spray particle and substrate as taught by Rogers in order to effectively providing mechanical interfacial adhesion spray particle and zinc substrate.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

P. Sta

I.-H. Lin

10-1-06

KEVIN KERNS Kevin Kews 10/2/06 PRIMARY EXAMINER

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